

10/581934

467251695 US
467251695 US

EXPRESS MAIL MAILING LABEL: EQ 467251695 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

3745

Applicant: LIU et al.
Serial No.: ~~no~~ 10/581,934
Filed: Contemporaneous Herewith
International Application No.: PCT/GB2004/005407
International Application Filing Date: December 23, 2004
Entitled: Vacuum Pump
Atty. Dkt.: M03B343

Group Art Unit: ~~no~~
Examiner: ~~no~~
Aaron R. Eastman

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

The Examiner's attention is directed to the documents identified on the attached Forms PTO/SB/08A and PTO/SB/08B "Information Disclosure Statement By Applicant." A copy of each non-US patent document is enclosed.

Please consider all the listed documents and list them on the cover sheet of any patents to issue from the subject application.

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or within three months of the date of entry of the National Phase of an international application or before the mailing of a first Office Action on the merits.

In accordance with 37 CFR 1.97(b), no additional fee is due. As a precaution, the Commissioner is hereby authorized to charge to Deposit Account No. 02-2865 any fee required by this submission.

Very truly yours,

Date: June 6, 2005
The BOC Group, Inc.
Legal Services - Intellectual Property
575 Mountain Avenue
Murray Hill, NJ 07974
(908) 771-6469


Ira Lee Zebrak
Attorney for Applicant(s)
Reg. No. 34,147

Attachments
Forms PTO/SB/08A & PTO/SB/08B
Cited References

ILZ:bjl

EXPRESS MAIL MAILING LABEL: EQ 467251695 US

10/581934

AP3 Rec'd PC 1710 36 JUN 2005

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sh

1

of 4

Complete if Known

Application Number	10/581, 934
Filing Date	04/02/2007
First Named Inventor	LIU et al.
Art Unit	3745
Examiner Name	Aaron R. Eastman
Attorney Docket Number	M03B343

Sh

1

of 4

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
//A.R.E//	2	GB 341,378	01-15-1931	Siemens-Schuckertwerke		
	3	EP 0 898 083 A2	02-24-1999	The BOC Group plc		
	4	EP 1 233 189 A1	08-21-2002	Seiko Instruments Inc.		
	5	JP 60-252197	12-12-1985	Hitachi Ltd		
	6	JP 2-136595	05-25-1990	Anelva Corp		
//A.R.E//	7	SU 1086226 A	04-15-1984	Cellulose Paper Ind Res		

Examiner Signature	/Aaron Eastman/	Date Considered	08/23/2010
-----------------------	-----------------	--------------------	------------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **¹** Applicant's unique citation designation number (optional). **²** See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. **³** Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). **⁴** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **⁵** Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. **⁶** Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

AP3 REC'D 6 JUN 2005

10/581934

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 4

Complete if Known

Application Number	10/581, 934
Filing Date	04/02/2007
First Named Inventor	LIU et al.
Art Unit	3745
Examiner Name	Aaron R. Eastman
Attorney Docket Number	M03B343

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature	/Aaron Eastman/	Date Considered	08/23/2010
--------------------	-----------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

If you need assistance in completing the form, call 1-800-RTO-8122 (1-800-786-8122) and select option 3.

10/581934

AP3 Rec'd PTO 06 JUN 2008

PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/581, 934
				Filing Date	04/02/2007
				First Named Inventor	LIU et al.
				Art Unit	3745
				Examiner Name	Aaron R. Eastman
Sheet	3	of	4	Attorney Docket Number	M03B343

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
//A.R.E.//	9	TSUTSUMI YOSHITSUGU, TANIYAMA MINORU, TERAJIMA MAKOTO, NAGAOKA TAKASHI, NAKAGAWA KOUJI, MASE MASAHIRO; Patent Abstracts of Japan;		
		abstract of JP 60252197 A, "Vacuum Pump," December 12, 1985; Hitachi Ltd		
	10	TAKEYASU NOBORU, HAYASHI YOSHITAKA; Patent Abstracts of Japan; abstract of JP 2136595 A, "Vacuum Pump," May 25, 1990; Anelva Corp.		
	11	NAKATANI IKUYOSHI; Patent Abstracts of Japan; abstract of JP 63223393, "Centrifugal Vacum Pump," September 16, 1988; DaiNippon Screen Mfg. Co. Ltd.		
	12	NAKATANI IKUHIRO; Patent Abstracts of Japan; abstract of JP 01219392, "Centrifugal High Vacuum Pump," September 1, 1989; DaiNippon Screen Mfg. Co. Ltd.		
	13	HAYASHI YOSHITAKA; Patent Abstracts of Japan; abstract of JP 02136595, "Vacuum Pump," May 25, 1990; Anelva Corp.		
	14	EKIMOVA VA, SHMERKIN RS, VASYUTIN EV; Abstract of SU 1086226 A; "Multistage Centrifugal Vacuum Compressor Load Regulation System -		
		Has Stages Provided with Adders, and Regulators Connected to Flow Rate Sensors," April 15, 1984; (CEPA) Cellulose Paper Ind Res		
	15	United Kingdom Search Report of Application No.: GB 0329839.5; Date of mailing: May 21, 2004		
//A.R.E.//	16	PCT Invitation to Pay Additional Fees of International Application No. PCT/GB2004/005407; Date of mailing: July 5, 2005		

Examiner Signature	/Aaron Eastman/	Date Considered	08/23/2010
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

301581934
AP3 Rec'd PCT/US 16 JUN 2005

PTO/SB/08B (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/581,934	
				Filing Date	04/02/2007	
				First Named Inventor	LIU et al.	
				Art Unit	3745	
Sheet 4	of 4	Examiner Name	Aaron R. Eastman			
				Attorney Docket Number	M03B343	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
//A.R.E./	17	PCT Notification of Transmittal of The International Search Report and the Written Opinion of the International Searching Authority, or the Declaration		
//A.R.E./		of International Application No. PCT/GB2004/005407; Date of mailing: September 27, 2005		
//A.R.E./	18	PCT International Search Report of International Application No. PCT/GB2004/005407; Date of mailing of the International Search Report: September 27, 2005		
//A.R.E./	19	PCT Written Opinion of the International Searching Authority of International Application No. PCT/GB2004/005407; Date of mailing: September 27, 2005		

Examiner Signature	/Aaron Eastman/	Date Considered	08/23/2010
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.